

Abstract

Multistage centrifugal compressor having a horizontally openable tank, comprising a lower semi-tank and an upper semi-tank, a shaft having a series of rotors and a series of stages each of which comprising, in turn, a series of lower semi-diaphragms and a series of upper semi-diaphragms, a lower half-ring and an upper half-ring which can be coupled to form a bearing ring, the lower half-ring being fastened internally to the lower semi-tank, and the corresponding upper half-ring being fastened to the upper semi-tank, in each stage of the multistage centrifugal compressor, the lower semi-diaphragms are rigidly constrained to one another to form a first pile of lower semi-diaphragms and, the corresponding upper semi-diaphragms are rigidly constrained to one another to form a second pile of lower semi-diaphragms, the first pile can be constrained to the lower half-ring and the second pile can be constrained to the upper half-ring.